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Serial Number: 09/492,728

Reply to Office Action dated 11 March 2004

IN THE CLAIMS

This Listing of Claims will replace all prior versions, and listings, of Claims in the subject Patent Application:

Listing of Claims:

1. (Currently Amended) A communications and data display system for a multi-user meeting comprising:

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a projection system for displaying a shared image upon a shared screen, the projection system including a projector wireless transceiver and a controller; and
at least first and second data appliances each operable independent of the shared screen to display at least a portion of the shared image thereat, the first and second data appliances respectively including first and second wireless transceivers, wherein:
the first and second wireless transceivers are independently operable to transfer graphical data to the projector wireless transceiver;
the projection system displays the shared image responsive to the graphical data; and
the transfer of the graphical data and display of the shared image are controlled by the controller using first control data;

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whereby ~~each~~ of the first and second data appliances provides a capability to simultaneously modify the shared image.

2. (Previously presented) The communications and data display system of claim 1, wherein:

the first wireless transceiver transfers a first signal to the projector wireless transceiver;

the projector wireless transceiver transfers the first signal to the second wireless transceiver; and

the transfer of the first signal from the first data appliance to the second data appliance is controlled by the controller using second control data.

3. (Previously presented) The communications and data display system of claim 2, wherein:

the second wireless transceiver transfers a second signal to the projector wireless transceiver;

the projector wireless transceiver transfers the second signal to the first wireless transceiver; and

the transfer of the second signal from the second data appliance to the first data appliance is controlled by the controller using the second control data.

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4. (Previously presented) The communications and data display system of claim 1, wherein:

the projection system further comprises an interface to an external network;
the first wireless transceiver transfers a first signal to the projector wireless transceiver;

the projector wireless transceiver transfers the first signal to the external network; and

the transfer of the first signal from the first data appliance to the external network is controlled by the controller using third control data.

5. (Previously presented) The communications and data display system of claim 4, wherein:

the external network transfers a second signal to the projector wireless transceiver;

the projector wireless transceiver transfers the second signal to the first wireless transceiver; and

the transfer of the second signal from the external network to the first data appliance is controlled by the controller using the third control data.

6. (Previously Presented) The communications and data display system of claim 1, wherein:

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the first data appliance further comprises a graphics chip, a processing unit,
a memory and a MUX;
the processing unit takes keyboard input from a local keyboard;
the processing unit takes memory graphics input from the memory and
provides processing-unit memory output to the memory;
the processing unit provides processing-unit graphics output to the graphics
chip and to the MUX;
the processing unit provides processing-unit control output to the MUX;
the graphics chip provides graphics-chip output to a local display and to the
MUX; and
the MUX provides MUX output to the first wireless transceiver, the MUX
output having a compression format selected from the group
consisting of compressed and uncompressed.

7. (Previously presented) The communications and data display system of
claim 1, wherein:

the projection system further comprises a graphics converter and a
projector;
the graphics converter receives the graphical data from the projector
wireless transceiver and transfers uncompressed graphical data to the
projector; and

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the projector displays the shared image responsive to the uncompressed graphical data.

8. (Previously Presented) The communications and data display system of claim 7, wherein the graphics converter includes an application-aware graphics chip that transforms compressed graphics data to the uncompressed graphics data.

9. (Previously Presented) The communications and data display system of claim 8, wherein:

the compressed graphical data includes compressed motion graphics or video data; and

the uncompressed graphical data includes uncompressed motion graphics or video data.

10. (Currently Amended) A communications and data display system for a multi-user meeting comprising:

a projection system for displaying a shared image upon a shared screen, the projection system including a projector wireless receiver and a controller; and

at least first and second data appliances each operable independent of the shared screen to display at least a portion of the shared image thereat, the first and second data appliances respectively including first and second wireless transmitters, wherein:

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the first and second wireless transmitters are independently operable
to transfer graphical data to the projector wireless receiver;
the projection system displays the shared image responsive to the
graphical data; and
the transfer of the graphical data and display of the shared image are
controlled by the controller using control data;
whereby ~~each~~ of the first and second data appliances provides a
capability to simultaneously modify the shared image.


11. (Previously Presented) The communications and data display system of
claim 10, wherein:

the first data appliance further comprises a graphics chip, a processing unit,
a memory and a MUX;
the processing unit takes keyboard input from a local keyboard;
the processing unit takes memory graphics input from the memory and
provides processing-unit memory output to the memory;
the processing unit provides processing-unit graphics output to the graphics
chip and the MUX;
the processing unit provides processing-unit control output to the MUX;
the graphics chip provides graphics-chip output to a local display and to the
MUX; and

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the MUX provides MUX output to the first wireless transmitter, the MUX output having a compression format selected from the group consisting of compressed and uncompressed.

12. (Previously presented) The communications and data display system of claim 10, wherein:

 the projection system further comprises a graphics converter and a projector;

the graphics converter receives the graphical data from the projector wireless receiver and transfers uncompressed graphical data to the projector; and

the projector displays the shared image responsive to the uncompressed graphical data.

13. (Previously Presented) The communications and data display system of claim 12, wherein the graphics converter includes an application-aware graphics chip that transforms compressed graphics data to the uncompressed graphics data.

14. (Currently Amended) A method for communication and data display for a multi-user meeting, comprising:

transmitting graphical data from at least one of first and second wireless transceivers of respective first and second data appliances to a projector wireless transceiver of a projection system;

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displaying a shared image upon a shared screen responsive to the graphical data with the projection system;

displaying at each of the first and second data appliances independent of the shared screen at least a portion of the shared image; and

controlling the transmitting of the graphical data and the displaying of the shared image with a controller using first control data;

whereby ~~each~~ of the first and second data appliances provides a capability to simultaneously modify the shared image.

15. (Previously presented) The method of claim 14, further comprising:

transmitting a first signal from the first wireless transceiver to the projector wireless transceiver;

transmitting the first signal from the projector wireless transceiver to the second wireless transceiver of the second data appliance; and

controlling the transmission of the first signal from the first data appliance to the second data appliance with the controller using second control data.

16. (Previously presented) The method of claim 15, further comprising:

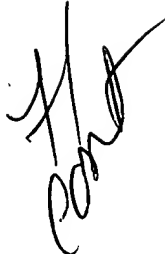
transmitting a second signal from the second wireless transceiver to the projector wireless transceiver;

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transmitting the second signal from the projector wireless transceiver to the first wireless transceiver; and
controlling the transmission of the second signal from the second data appliance to the first data appliance with the controller using the second control data.

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17. (Previously presented) The method of claim 14, further comprising:
transmitting a first signal from the first wireless transceiver to the projector wireless transceiver;
transmitting the first signal from the projector wireless transceiver to an external network, the projection system including an interface to the external network; and
controlling the transmission of the first signal from the first data appliance to the external network with the controller using third control data.
18. (Previously presented) The method of claim 17, further comprising:
transmitting a second signal from the external network to the projector wireless transceiver;
transmitting the second signal from the projector wireless transceiver to the first wireless transceiver; and

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controlling the transmission of the second signal from the external network
to the first data appliance with the controller using the third control
data.

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19. (Previously Presented) The method of claim 14, further comprising:
transmitting a keyboard input from a local keyboard to the first data
appliance;
converting compressed graphical data to uncompressed graphical data at the
first data appliance; and
controlling a flow of uncompressed graphical data and compressed
graphical data to the first wireless transceiver.
20. (Previously Presented) The method of claim 19, wherein:
the compressed graphical data includes compressed motion graphics or
video data; and
the uncompressed graphical data includes uncompressed motion graphics or
video data.
21. (Previously presented) The method of claim 14, further comprising:
converting compressed graphical data to uncompressed graphical data at the
projection system;
controlling a flow of uncompressed graphical data to a projector of the
projection system; and

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using the projector to display the shared image responsive to the
uncompressed graphical data.

22. (Original) The method of claim 21, wherein converting compressed graphical data to uncompressed graphical data includes using an application-aware graphics chip to transform compressed graphical data to uncompressed graphical data.

23. (Previously presented) The communications and data display system of claim 1, wherein the first control data includes at least one of:

projector control data of the projection system; and

a first control signal of the first data appliance transferred from the first wireless transceiver to the controller via the projector wireless transceiver.

24. (Previously presented) The communications and data display system of claim 2, wherein the second control data includes at least one of:

projector control data of the projection system;

a first control signal of the first data appliance transferred from the first wireless transceiver to the controller via the projector wireless transceiver; and

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a second control signal of the second data appliance transferred from the second wireless transceiver to the controller via the projector wireless transceiver.

25. (Previously presented) The communications and data display system of claim 4, wherein the third control data includes at least one of:

projector control data of the projection system;

a first control signal of the first data appliance transferred from the first wireless transceiver to the controller via the projector wireless transceiver; and

an external control signal of the external network transferred to the controller via the interface to the external network.

26. (Previously presented) The communications and data display system of claim 10, wherein the control data includes at least one of:

projector control data of the projection system; and

a first control signal of the first data appliance transferred from the first wireless transmitter to the controller via the projector wireless receiver.

27. (Previously presented) The communications and data display system of claim 14, wherein the first control data includes at least one of:

projector control data of the projection system; and

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a first control signal of the first data appliance transferred from the first wireless transceiver to the controller via the projector wireless transceiver.

28. (Previously presented) The communications and data display system of claim 15, wherein the second control data includes at least one of:

projector control data of the projection system;

a first control signal of the first data appliance transferred from the first wireless transceiver to the controller via the projector wireless transceiver; and

a second control signal of the second data appliance transferred from the second wireless transceiver to the controller via the projector wireless transceiver.

29. (Previously presented) The communications and data display system of claim 17, wherein the third control data includes at least one of:

projector control data of the projection system;

a first control signal of the first data appliance transferred from the first wireless transceiver to the controller via the projector wireless transceiver; and

an external control signal of the external network transferred to the controller via the interface to the external network.

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30. (Previously presented) The communications and data display system of claim 1, wherein the graphical data is transferred at frequencies of approximately 5 GHz.

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31. (Previously presented) The communications and data display system of claim 10, wherein the graphical data is transferred at frequencies of approximately 5 GHz.

32. (Previously presented) The method for communication and data display of claim 14, wherein the graphical data is transferred at frequencies of approximately 5 GHz.
